Math 212 Section 001 – Fall 2013

Time: MWF 11:00-11:50 am
Location: TBA

Instructor: Brian Lehmann **Office:** 214 Brown HMS

Email: blehmann@rice.edu **Office Phone:** (713) 348-4829

Office Hours: TBA.

TA Recitation Sections: The TA sessions will be determined later.

Course Website: The course has an OWL-Space page – search for MATH 212 001 F13.

Text: "Vector Calculus, Fifth edition" by Marsden and Tromba.

It is important to read the sections of the book covering the material discussed in lecture, ideally before the lecture takes place. Since this class moves very quickly, there will be essential details that are only covered in the book.

Syllabus: This course covers calculus in vector spaces. The topics include gradient, divergence, and curl; Lagrange multipliers; line integrals and conservative vector fields; Green's theorem, Stokes' theorem, and Gauss' theorem.

Assignments: There will be weekly homework assignments posted on OWL-Space. Homework assignments are not pledged, and you are encouraged to discuss the problems with others. However, the final write-up should reflect your own understanding. The homework needs to be written clearly and in a mathematically precise manner. Late homeworks will not be accepted; however, the lowest two scores will be dropped. You may not use the solutions manual.

Exams: There will be two midterms and a final exam.

Midterm 1	TBA	TBA	TBA
Midterm 2	TBA	TBA	TBA
Final Exam	TBA	TBA	TBA

All the exams will be pledged; the use of books or notes is not allowed. (I will inform you about calculator use before each test.) Make-up exams will only be allowed in the case of a documented medical emergency. Anyone with a potential conflict should let me know within the first two weeks of class.

Grading scheme: The grades will be calculated using the following scheme:

Homeworks	25%
Midterm 1	20%
Midterm 2	20%
Final Exam	35%

Attendence: You are expected to attend class and to arrive on time; however, attendence is not reflected in your grade. It is also your responsibility to stay informed about all announcements or policy changes made during class.

Disability support: Any student with a documented disability who needs special considerations is requested to speak with me during the first two weeks of class. All discussions will remain confidential. Students with disabilities also need to contact Disability Support Services in the Allen Center.

Class Expectations:

Read the appropriate portion of the book before class.
Arrive to class on time.
Use email appropriately.

Tentative Schedule: The following schedule may be changed.

Week	**Sections**
8/26	1.1, 1.2, 1.3
9/2 (Labor day)	1.3, 1.4, (1.5)
9/9	2.1, 2.2
9/16	2.3, 2.4
9/23	2.5, 2.6, 3.1
9/30	3.3, 3.4
10/7	5.2, 5.3
10/14 (Midterm recess)	5.4, 5.5
10/21	6.1, 6.2
10/28	4.3, 4.4
11/4	4.2, 7.1, 7.2
11/11	7.3, 7.4, 7.5
11/18	7.6, 8.1
11/25 (Thanksgiving)	8.2, 8.3
12/2	8.4